



June 11, 1998

Superfund Records Center
SITE: Ciba-Geigy
BREAK: 19.00
OTHER: 638028

Mark Heaney
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Reference: EPA Contract No. 68-W4-0013; EPA Work Assignment No. R01029;
Ciba-Geigy Facility, Cranston, Rhode Island;
Field Oversight Summary Report, Ground Water Split Sample Collection, and
Analytical Results.
Project No. 02510-0052-10004

Enclosed please find a copy of the above referenced deliverable for ground water split sampling activities at the Ciba-Geigy Facility. Split samples were collected during April 1998 during the facility's Pawtuxet River Corrective Measure Study (PRCMS). This report includes a chronology of field events, summary of field samples split at the facility, copies of the chain of custody forms, and analytical results. An electronic copy of the text and table are provided on the attached diskette in Word Perfect 6.1 and Microsoft Excel 97.

Please contact me at (978) 656-3585 if you have any questions on the enclosure.

Sincerely,

Joanna M. Hall
TRC Project Manager

p:\projects\ccr\198-195.wpd



SEMS DocID

638028

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Customer-Focused Solutions

**FIELD OVERSIGHT SUMMARY REPORT
CIBA-GEIGY FACILITY
CRANSTON, RHODE ISLAND**

Submitted to:

**Ms. Rosanna Sawaya-O'Brien
Regional Project Officer
U.S. Environmental Protection Agency
Waste Management Division (HPC CAN-7)
JFK Federal Building
Boston MA 02203**

Submitted by:

**Mr. Mark D. Heaney
Regional Manager
TechLaw Inc.
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Contract No.: 68-W4-0013
TechLaw WAM: Mark Heaney
Telephone No.: (617) 720-0320
EPA WAM: Frank Battaglia
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- A Field Activity Summary Sheets and Ground Water Data Forms
- B Copy of Log Book
- C Photograph Log
- D Chain-of-Custody Forms
- E Analytical Data Sheets

1.0 INTRODUCTION

At the request of Frank Battaglia (USEPA), the TechLaw Team traveled to the Ciba-Geigy Facility on April 27-28, 1998 to observe ground water sampling activities being conducted by Rhode Island Analytical Services (RIAS). The TechLaw Team conducted this activity in accordance with the Field Oversight Work Plan/QAPjP, dated June 26, 1995 and the Addendum to the TechLaw's Field Oversight Work Plan/QAPjP, dated April 23, 1998. The ground water sampling activities were conducted as part of the Pawtuxet River Corrective Measure Study Report (PRCMS) at the Ciba-Geigy Facility.

At the request of Mr. Battaglia, the TechLaw Team obtained split samples from the sixteen ground water monitoring wells sampled by the facility for independent verification analysis. Attachment A summarizes the sixteen split samples collected. In addition, the following attachments are provided in this report: Attachment B, Copy of Log Book and Attachment C, Photograph Log. Split samples were submitted to the QST analytical laboratory in Newberry, Florida for Volatile Organic Compounds (VOC) analysis, following EPA SW846 Method 8260. At EPA's direction no validation of laboratory results was conducted. Copies of the chain-of-custody forms which accompanied the samples during shipment are presented in Attachment D. Analytical data sheets are presented in Attachment E.

TechLaw verified RAIS sampling activities during field oversight using the following documents:

- RIAS Standard Operating Procedures for Field Sampling of Monitoring Wells (Ciba Site), and;
- RCRA Groundwater Monitoring: Draft Technical Guidance, EPA /530-R-93-001, November, 1992.

2.0 CHRONOLOGY OF EVENTS

On April 27, TRC personnel arrived on site at 0830 to observe RIAS personnel and obtain split samples during ground water sampling at the Ciba-Geigy Facility. The schedule called for the collection of sixteen ground water samples to be analyzed by EPA SW846 Method 8260 as shown in Table 1. The ground water samples were collected using a submersible whale-pump to purge the wells and a teflon disposable bailer to collect the analytical sample. Ten of the sixteen scheduled ground water split samples, a rinsate blank and a MS/MSD were collected (RB-1, MW-02S, P-02D, P-35S, SW-120, P-36S, P-34S, SW-130, P-37S, SW-110, and MW-1S), in addition a trip blank was shipped with the sample cooler. The TechLaw Team noted no deficiencies during sampling.

After obtaining split samples, the TechLaw Team completed the chain-of-custody forms, shipped the samples to the laboratory and left the site at 1555 hours.

On April 28, the TechLaw Team arrived on site at 0745 to collect split samples from the remaining six monitoring wells: P-38S, MW-13S, MW-12S, MW-4S, MW-14S, and MW-21S. A trip blank was shipped with the sample cooler. The TechLaw Team observed that monitoring well MW-14S had approximately a sixteenth of an inch of a light non-aqueous phase liquid (LNAPL) during purging. After collection of the sample from MW-14S, a sheen was observed within the sample containers. The TechLaw team noted no deficiencies during sampling.

After obtaining split samples, the TechLaw Team completed the chain-of-custody forms, shipped the samples to the laboratory and left the site at 1330 hours.

**TABLE 1. SUMMARY OF VOC SPLIT
SAMPLES COLLECTED**

Sample ID	Date Sample Collected
MW-02S	4/27/98
P-02D	4/27/98
P-35S	4/27/98
SW-120	4/27/98
P-36S	4/27/98
P-34S	4/27/98
SW-130	4/27/98
P-37S	4/27/98
SW-110	4/27/98
MW-1S	4/27/98
P-38S	4/28/98
MW-13S	4/28/98
MW-12S	4/28/98
MW-4S Duplicate MW-4SD	4/28/98
MW-14S	4/28/98
MW-21S	4/28/98

3.0 SUMMARY OF ANALYTICAL RESULTS

Table 2 summarizes results of split sample analysis. Analytical data sheets are provided in Attachment E. As shown in Table 2, fifteen VOCs were detected in ground water split samples collected at the facility (maximum detected concentration provided in parentheses): vinyl chloride (64 ug/L), acetone (35 ug/L), carbon disulfide (4.3 J ug/L), trans-1,2-dichloroethene (17 ug/L), 1,1-dichloroethene (1.7 J), cis-1,2-dichloroethene (2400 ug/L), chloroform (1.5 J), 1,1,1-trichloroethane (1.5 J), benzene (28 ug/L), trichloroethene (12 ug/L), toluene (230,000 ug/L), tetrachloroethene (130 J ug/L), chlorobenzene (3800 ug/L), ethylbenzene (160 ug/L), and total xylenes (7300 ug/L).

The results of the trip blanks, rinsate blank, and field duplicate sample do not evidence significant problems in the field sampling procedures or laboratory analyses. No VOCs were detected in either trip blank. Chloroform was detected in the rinsate blank at 2.5 ug/L. Since chloroform is reported in only two samples (MW-2S at 0.64 ug/L and MW-4SD at 1.5 J ug/L) sample contamination as a result of the field sampling and decontamination procedures is not widespread. EPA should note that the chloroform result in samples MW-2S and MW-4SD would be reported as 2.5 U after data validation due to the detection in the rinsate blank.

Results of the analysis of field duplicate set, MW-4S and MW-4SD, were evaluated following EPA Region I data validation guidelines for precision. Relative percent difference was calculated for all compounds detected at concentrations greater than or equal to the sample quantitation limit in the duplicate set using the following formula:

$$RPD = \frac{(S-D)}{(S+D)/2} \times 100$$

where,

S = sample result

D = duplicate result.

The duplicate sample results do not indicate a significant problem in field or laboratory precision. Results for xylenes, ethylbenzene, and benzene within EPA's acceptance criteria of +/- 30 percent RPD. Results for toluene and chlorobenzene are not within EPA's acceptance criteria. Therefore, toluene and chlorobenzene results would be qualified as estimated in both samples.

The following compounds were detected in only one of the duplicate samples at trace concentrations below the detection limit: 1,1-dichloroethane, chloroform, 1,1,1-trichloroethane, and tetrachloroethane. The occurrence of trace detects in only one sample of a duplicate pair is not unusual. The trace detects would be qualified as estimated (J) after data validation. Cis-1,2-dichloroethene results was reported at 25 ug/L in one sample and not detected in the duplicate. The detection would be estimated (J) during data validation.

VOCs were not detected in split samples from monitoring wells P-38S and MW-13S. These data are consistent with results from previous compliance monitoring events. No VOCs were detected in P-38S during the April 1997 or October 1997 sampling event. Trace levels of chlorobenzene (3 ug/L) and xylenes (1 ug/L) were detected in MW-13S in the October 1997 sampling event. Therefore, the northern extent of the plume appears to be located within the capture zone of the ground water extraction system.

Comparison of the analytical results with prior reported data indicates a large change in VOC concentrations detected at MW-21S. VOC concentrations range from non-detect to trace in samples from the April 1997 and April 1998 sampling events. However, VOCs were detected at very high concentrations (up to 24,000 ug/L) in the October 1997 sampling event. The cause of this change is not evident from a review of the documentation provided in the August 1997 and March 1998 compliance monitoring reports. The operation of the soil vapor extraction (SVE) system may cause the variations in VOC concentrations noted at MW-21S. However, no information regarding the operation of the SVE system is provided in the August 1997 and March 1998 compliance monitoring reports.

The April 1998 sampling event appears to be the first occasion MW-14S was included in the compliance monitoring program. Analytical results indicate that toluene was detected at a concentration of 230,000 ug/L, confirming field observations that LNAPL was present.

4.0 RECOMMENDATIONS

The following are recommended:

- Consider including vinyl chloride on the compliance monitoring list of contaminants of interest due to positive detections ranging up to 30 times the Maximum Contaminant Level of 2 ug/L.
- The facility should evaluate current and historical compliance monitoring data and report any changes in the horizontal or vertical migration of contamination. The facility should evaluate the significance of the change in VOC concentrations in samples collected from MW-21S.
- Include MW-14S in future compliance monitoring events to evaluate trends in toluene concentrations.
- Expand compliance monitoring to include well MW-22S to confirm that the southern limit of the plume is located within the capture zone of the extraction system.
- The operating history of the SVE system should be presented in the compliance monitoring reports. Evaluation of ground water contaminant concentrations in the compliance monitoring reports should consider the influence of the SVE system.

ATTACHMENT A

**FIELD ACTIVITY SUMMARY SHEETS AND
GROUND WATER DATA FORMS**



Field Activity Summary Sheet

Project: Ciba Specialty **Project No.:** 02510-0052-1000
Activity: Groundwater Split-Sampling
Weather: Sunny 65° F

Date: 4/27/98 Sheet 1 of 1

TRC Personnel:
A. Balogh

Contractor Personnel:

Paul Perrotti (RIAS)
Greg Harrison (RIAS)

Summary:

Summary: 0830 TRC A. Balogh on site to conduct ground water split sampling w/ RIAS.

1000 Collection of mw-025, all samples analyzed

1845 54 8260

1045 Collection of P-02D

1115 Collection of p-35s

1145 Collection of SW-120

1210 Rinsate blank collection

1215 [Collector of P-365] ms / msd

1345 Collection of P-345

1430. Collection # SW-130

1530 Collection of P-315
155 Collection of May-15

155) *Coracina* *fuscata*
THE OFF-SIME

Deviations from Contractor's Work

1866 *1867* *1868* *1869* *1870*

Sketch:

Deviations from Contractor's Work Plan/EPA Procedures:

No deviations noted

Photograph #	Roll ID	Description
1,2,3,4	1	Site, North ⁽¹⁾ , East ⁽²⁾ , South ⁽³⁾ , & West ⁽⁴⁾
5	1	Measuring flow level in P-020
6	1	View of P-35S along River
7	1	Pumping SW-120 with Gardner
8	1	Pumping P-34S
9	1	View of P-37S
10	1	View of SW-110

Signed:

Rev: 8 July 1991

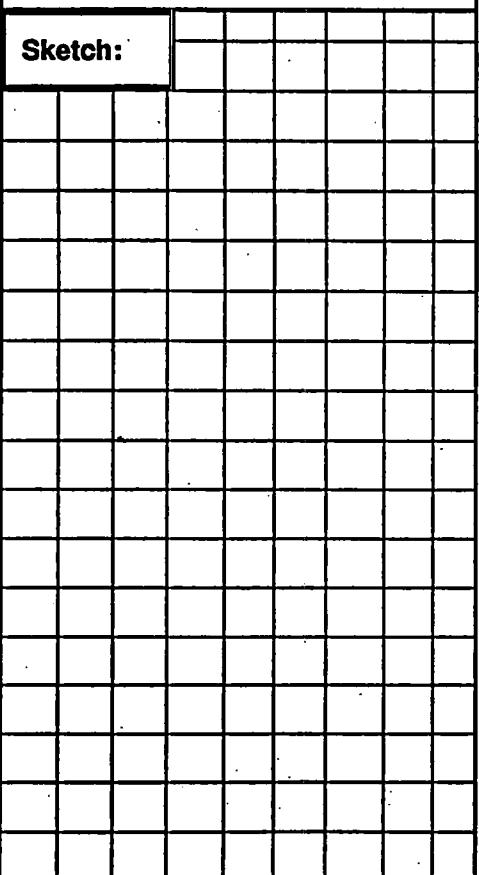


Field Activity Summary Sheet

Project: Ciba Specialty	Project No.: 02510-0052-10004	Date: 4/28/98	Sheet <u>1</u> of <u>1</u>
Activity: Groundwater Split Sampling	TRC Personnel: T. Major		
Weather: Warm / Breezy 59°F	Contractor Personnel: <u>R1AS</u> Paul Pennotti Greg Harrison		

Summary:

- 0745 TRC T. Major is on site to collect the remaining six ground split samples with R1AS.
- 0835 Collection of P-385
- 0910 Collection of mw-135
- 0945 Collection of mw-125
- 1050 Collection of mw-45 and duplicate mw-45D
- 1115 Collection of mw-145
- 1315 Collection of mw-215
- 1330 TRC OFF SITE

Sketch:

Deviations from Contractor's Work Plan/EPA Procedures:

No deviations noted

Photograph #	Roll ID	Description
11	1	Well location P-385
12	1	Well location mw-125
13	1	Well location mw-45
14	1	Well location mw-145 LNAPL
15	1	Well location mw-215

Signed: Todd O. Major

Rev. 8 July 1991

Field Data Record Ground Water

Project:

Project No.: 025W-0052

Date/Time:
4/27/94 / 1400

Sheet _____ of _____

Sample No.:

Well Location: #W-1 S

WELL INTEGRITY		YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Well Cap Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
OVA/PID SCREENING MEAS.			
Total VOC's	Methane		
Background	<i>not measured</i>		
Well Mouth	<i>well sealed</i>		
Protective Casing Stick-up <u>~3.5</u> ft Riser Stick-up <u>~3.0</u> ft			
WELL DIAMETER <input type="checkbox"/> 2 inch <input checked="" type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch			
WELL MATERIAL <input type="checkbox"/> PVC <input checked="" type="checkbox"/> SS <input type="checkbox"/>			
Well Depth <u>18.5</u> ft <input checked="" type="checkbox"/> top of riser <input type="checkbox"/> top of casing <input type="checkbox"/> measured historical Water Depth <u>7.3</u> ft			
Height of Water Column <u>11.2</u> ft x <input type="checkbox"/> .16 gal/ft (2 in.) <input checked="" type="checkbox"/> .65 gal/ft (4 in.) <input type="checkbox"/> 1.5 gal/ft (6 in.) <input type="checkbox"/> _____ gal/ft (____ in.)			
Volume of Water in Well = <u>7</u> gallon(s) <u>.72</u> Total gallons to purge <small>[Vol. = $\pi r^2 h (0.163)$]</small>			

FIELD WATER QUALITY MEASUREMENTS				- purged to near dryness				Sample Description
Purge Volume (gal)	22	29	29.31					
pH (Std. Units)	8.2	7.9	8.0					
Eh (millivolts)		82.1						
Conduct. ($\mu\text{mhos/cm}$)	73.7	109 ⁸⁰	81.7					
Temp. ($^{\circ}\text{F}$)	55.6	53.8	53.3					
Turb. (NTU)								
DO (mg/l)								

SAMPLE EQUIP./DECON.	PURGE	SAMPLE	EQUIPMENT ID	DECON. FLUID USED
Peristaltic Pump				Tap Water
Submersible Pump	✓			Alconox
Bailer		✓		Tap Water
Waterra				HNO ₃ (1 or 10%)
PVC/Silicon Tubing	✓			Tap Water
Teflon/Silicon Tubing				Methanol
Air Lift				Hexane
In-line Filter				Acetone
Pressure Vacuum Filter				Air Dry
Measuring Tape				DI Water
				Air Dry
				None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles 8260	YES <input checked="" type="radio"/>	4° C <input checked="" type="checkbox"/>	2x40 mL	1555	MW-15	
<input type="checkbox"/> BNA Extractables	YES <input type="radio"/>	4° C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="radio"/>	4° C				
<input type="checkbox"/> TAL Metals	YES <input type="radio"/>	HNO ₃ /4° C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="radio"/>	NaOH/4° C	1 L PL			
<input type="checkbox"/> _____	YES <input type="radio"/>					

Field Data Record
Ground Water

Project:

UFWA

Project No.:

02510-0052

Date/Time:

4/17/90 1520

Sheet ___ of ___

Contractor Personnel:

Paul Ferrotti & Greg Harrison

TRC Personnel:

A. Baer

Sample No.:

Well Location: SW-11D

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up _____ ft.
(from ground)Well
Depth 34.6 ft. top of riser
 top of casing measured
 historicalRiser Stick-up _____ ft.
(from ground)Water
Depth 9.4 ft.WELL DIAMETER
2 inch
4 inch
6 inch Height of
Water Column 25.4 ft. x .16 gal/ft (2 in.)
 .55 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft (___ in.)**OVA/PID SCREENING MEAS.**

	Total VOC's	Methane
Background	<u>A</u>	<u>Detected</u>
Well Mouth	<u>No</u>	<u>Detected</u>

WELL MATERIAL

 PVC SS Volume of Water in Well = 4 gallon(s).[Vol. = $r^2 h(0.163)$]12 Total gallons
to purge**FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)	<u>4</u>	<u>12</u>	<u>16</u>				
pH (Std. Units)	<u>8.5</u>	<u>8.3</u>					
Eh (millivolts)							
Conduct. ($\mu\text{mhos/cm}$)	<u>29.9</u>	<u>30.1</u>					
Temp. (°F)	<u>51.5</u>	<u>51.7</u>					
Turb. (NTU)							
DO (mg/l)							

Sample Description

Clear Turbid
 Color _____
 Odor NONE
 Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Baile:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT IDPurge w/ disposable bottle
Couple with SS bottle**DECON. FLUID USED**

Tap Water
 Alconox
 Tap Water
 HNO₃ (1 or 10%)
 Tap Water
 Methanol
 Hexane
 Acetone
 Air Dry
 DI Water
 Air Dry
 None

DESCRIPTION OF DECON. PROC.**ANALYTICAL PARAMETERS**

	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> Jet Volatiles	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C <input type="checkbox"/> 4°C <input checked="" type="checkbox"/>	2x40 mL	1540	SW-110	
<input type="checkbox"/> BNA Extractables	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	NaOH/4°C	1 L PL			
<input type="checkbox"/> _____	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					

Signed: John J. Smith

Rev: 8 July 1991

Field Data Record
Ground Water

Project:

CRBA

Project No.:

02510 - 0052

Date/Time:

4/27/96 / 1420

Sheet ___ of ___

Contractor Personnel:

Paul Ratto & Guy Helm

TRC Personnel:

A. Bagn

Sample No.:

Well Location: SW-130

WELL INTEGRITY

Protect. Casing Secure

YES	NO
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Concrete Collar Intact

PVC Stick-up Intact

Well Cap Present

Security Lock Present

Protective
Casing Stick-up N 7.6 ft.
(from ground)Well
Depth 35.6 ft. top of riser
 top of casing measured
 historicalRiser Stick-up
(from ground) N 3 ft.Water 9.6 ft.
Depth

WELL DIAMETER

Height of
Water Column 26 ft. .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft ___ in.)2 inch
4 inch
6 inch

Volume of Water in Well = _____ gallon(s)

13 Total gallons
to purge**OVA/PID SCREENING MEAS.**

Total VOC's	Methane
Background	<input checked="" type="checkbox"/>
Well Mouth	<input checked="" type="checkbox"/> Not Vary

WELL MATERIAL

 PVC SS **FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)

1317

pH (Std. Units)

9.08.7

Eh (millivolts)

474445

Conduct. (μmhos/cm)

479415

Temp. (°F)

51.151.2

Turb. (NTU)

DO (mg/l)

Sample Description

 Clear Turbid

Color _____

Odor _____

Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE**EQUIPMENT ID****DECON. FLUID USED**

Peristaltic Pump

Tap Water

Submersible Pump

Alconox

Baile:

Tap Water

Waterra

HNO₃ (1 or 10%)

PVC/Silicon Tubing

Tap Water

Teflon/Silicon Tubing

Methanol

Air Lift

Hexane

In-line Filter

Acetone

Pressure Vacuum Filter

Air Dry

Measuring Tape

DI Water

DESCRIPTION OF DECON. PROC.

Air Dry

None

ANALYTICAL PARAMETERSFiltered
(circle)Preservation
MethodVolume
RequiredTime of
CollectionCLP
Sample #CLP
Case # TCE VolatilesYES NO

4°C

2x40 mL

1430

SW-130

 BNA ExtractablesYES NO

4°C

4x1 L Amb GL

 PCBs/PesticidesYES NO

4°C

 TAL MetalsYES NOHNO₃/4°C

1 L PL

 CyanideYES NO

NaOH/4°C

1 L PL

Signed: H. Bagn

Rev: 8 July 1991

Field Data Record
Ground Water

Project:

CIBA

Project No.:

02510-0052

Date/Time:

4/27/96 / 1500

Sheet ___ of ___

Contractor Personnel:

Paul Rivotto & Greg Harrison

TRC Personnel:

A. Baly

Sample No.:

Well Location: P-375

WELL INTEGRITY

	YES	NO
Protect Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up _____ ft.
(from ground)Well
Depth _____ ft. top of riser
 top of casing measured
 historicalRiser Stick-up _____ ft.
(from ground)Water
Depth _____ ft.WELL DIAMETER
2 inch
4 inch
6 inchHeight of
Water Column _____ ft. x .16 gal/ft.(2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ____ gal/ft ____ in.)**OVA/PID SCREENING MEAS.**

	Total VOC's	Methane
Background	10 ppm	
Well Mouth	10 ppm	

WELL MATERIAL

 PVC SS

Volume of Water in Well =

1 gallon(s)

[Vol. = $r^2 h(0.163)$]3 Total gallons
to purge**FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)

3

4

pH (Std. Units)

9.1

8.6

Sample Description

Eh (millivolts)

Clear

Turbid

Conduct. ($\mu\text{mhos/cm}$)

66.7

68.4

Temp. ($^{\circ}\text{F}$)

53.6

54.1

Turb. (NTU)

DO (mg/l)

Color

N/A

Odor

Other

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump

Submersible Pump

Baile:

Waterra

PVC/Silicon Tubing

Teflon/Silicon Tubing

Air Lift

In-line Filter

Pressure Vacuum Filter

Measuring Tape

EQUIPMENT ID**DECON. FLUID USED**

Tap Water

Alconox

Tap Water

HNO₃ (1 or 10%)

Tap Water

Methanol

Hexane

Acetone

Air Dry

DI Water

Air Dry

None

DESCRIPTION OF DECON. PROC.**ANALYTICAL PARAMETERS**Filtered
(circle)Preservation
MethodVolume
RequiredTime of
CollectionCLP
Sample #CLP
Case # ~~Tot Volatiles~~YES

4° C

Hg

2x40 mL

1530

P-375

 BNA ExtractablesYES

4° C

4x1 L Amb GL

 PCBs/PesticidesYES

4° C

 TAL MetalsYES HNO₃/4° C

1 L PL

 CyanideYES

NaOH/4° C

1 L PL

Field Data Record
Ground Water

Project:

C1BTA

Project No.:

02570-0052

Date/Time:

4/27/98 1200

Sheet ____ of ____

Contractor Personnel:

Paul Perrotti & Greg Henson

TRC Personnel:

A. Baluy

Sample No.: RB-1

Well Location: Rincon Equipment Blatz

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up
(from ground) _____ ft.Well
Depth _____ ft. top of riser
 top of casing measured
 historicalRiser Stick-up
(from ground) _____ ft.Water
Depth _____ ft.WELL DIAMETER
2 inch
4 inch
6 inchHeight of
Water Column _____ ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft ___ in.)**OVA/PID SCREENING MEAS.**

Total VOC's	Methane
Background	
Well Mouth	

WELL MATERIAL

 PVC SS

Volume of Water in Well = _____ gallon(s)

[Vol. = $r^2 h(0.163)$] _____ Total gallons to purge**FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)

pH (Std. Units)

Eh (millivolts)

Conduct. ($\mu\text{mhos/cm}$)

Temp. (C)

Turb. (NTU)

DO (mg/l)

Sample Description

Clear Turbid

Color _____

Odor _____

Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump

Submersible Pump

Bailey

Waterra

PVC/Silicon Tubing

Teflon/Silicon Tubing

Air Lift

In-line Filter

Pressure Vacuum Filter

Measuring Tape

EQUIPMENT ID

SS Bailey

DECON. FLUID USED

Tap Water

Alconox

 Tap WaterHNO₃ (1 or 10%)

Tap Water

Methanol

Hexane

Acetone

Air Dry

DI Water

Air Dry

None

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TGL Volatiles	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C Lli	2x40 mL	12/0	RB-1	Rgrp. blank
<input type="checkbox"/> BNA Extractables	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	NaOH/4°C	1 L PL			
	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					

Signed: A. Baluy



Field Data Record Ground Water

Project:	Project No.:	Date/Time:	Sheet ____ of ____
CIBA	02510-0052	4/24/96 1200	
Contractor Personnel:		TRC Personnel:	
Paul Perrotti & Greg Harrison		A. Balon	

Sample No.:

Well Location: F-36 S

WELL INTEGRITY

Winn Academy

WELL INTEGRITY		YES	NO
Protect Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
PVC Stick-up Intact	<input type="checkbox"/>	<input type="checkbox"/>	
Well Cap Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Security Lock Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<hr/>			
OVA/PID SCREENING MEAS.			
	Total VOC's	Methane	
Background	<i>Not measured</i>		
Well Mouth	<i>Not measured</i>		
<hr/>			
Protective Casing Stick-up <u>N 3</u> ft. (from ground)			
Riser Stick-up <u>N 2.6</u> ft. (from ground)			
WELL DIAMETER <input checked="" type="checkbox"/> 2 inch <input type="checkbox"/> 4 inch <input type="checkbox"/> 6 inch			
Height of Water Column <u>10.5</u> ft. x			
<input checked="" type="checkbox"/> .16 gal/ft (2 in.) <input type="checkbox"/> .65 gal/ft (4 in.) <input type="checkbox"/> 1.5 gal/ft (6 in.) <input type="checkbox"/> ___ gal/ft ___ in.			
Volume of Water in Well = <u>A x 1.5</u> gallon(s)			
<input checked="" type="checkbox"/> 5 <input type="checkbox"/> Total gallons to purge			
[Vol. = $r^2 h (0.163)$]			
<input checked="" type="checkbox"/> top of riser <input type="checkbox"/> top of casing			
<input type="checkbox"/> measured historical			

FIELD WATER QUALITY MEASUREMENTS

SAMPLE EQUIP/DECON.	PURGE	SAMPLE	EQUIPMENT ID	DECON. FLUID USED
Peristaltic Pump				Tap Water
Submersible Pump				Alconox
Bailer	V	V		Tap Water
Waterra				HNO ₃ (1 or 10%)
PVC/Silicon Tubing				Tap Water
Teflon/Silicon Tubing				Methanol
Air Lift				Hexane
In-line Filter				Acetone
Pressure Vacuum Filter				Air Dry
Measuring Tape				DI Water
				Air Dry

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles	YES <input checked="" type="radio"/>	4° C <input checked="" type="checkbox"/> HLL	2x40 mL	12/15	P-365	MS/MSD
<input type="checkbox"/> BNA Extractables	YES <input type="radio"/>	4° C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="radio"/>	4° C				
<input type="checkbox"/> TAL Metals	YES <input type="radio"/>	HNO ₃ /4° C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="radio"/>	NaOH/4° C	1 L PL			
<input type="checkbox"/> _____	YES <input type="radio"/>					



Companies, Inc.

Field Data Record

Ground Water

Project:

C13A

Project No.:

02510-0052

Date/Time:

04/27/96 11 am

Sheet ____ of ____

Contractor Personnel:

Paul Perrotti : Greg Harrison

TRC Personnel:

A. Balay

Sample No.:

Well Location: P-035S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up 17.5 ft.
(from ground)Well
Depth 17.2 ft.
6.4 ft. top of riser
 top of casing measured
 historicalRiser Stick-up 12 ft.
(from ground)Water
Depth 17.2 ft.
17.2 ft.WELL DIAMETER
 2 inch
 4 inch
 6 inchHeight of
Water Column 10.4 ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft ___ in.)

OVA/PID SCREENING MEAS.

Total VOC's	Methane
Background	<u>not available</u>
Well Mouth	

WELL MATERIAL
 PVC
 SSVolume of Water in Well = 41.5 gallon(s)5 Total gallons
to purge[Vol. = $\pi r^2 h(0.163)$]

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	<u>4.5</u>	<u>6.0</u>				
pH (Std. Units)	<u>7.67</u>	<u>7.64</u>				
Eh (millivolts)						
Conduct. ($\mu\text{mhos/cm}$)	<u>76.1</u>	<u>76.4</u>				
Temp. (C) f	<u>58.0</u>	<u>57.5</u>				
Turb. (NTU)						
DO (mg/l)						

Sample Description

Clear Turbid
Color _____
Odor slight chlorinated odor
Other _____

SAMPLE EQUIP/DECON.	PURGE	SAMPLE
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Baileys	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT ID
disposable barrier to purge sample
SS barrier to sample

DECON. FLUID USED

Tap Water
Alconox
Tap Water
HNO₃ (1 or 10%)
Tap Water
Methanol
Hexane
Acetone
Air Dry
DI Water
Air Dry
None

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TOT Volatiles	YES <input checked="" type="radio"/>	4°C LC	2x40 mL	11/15	P-035S	
<input type="checkbox"/> BNA Extractables	YES <input type="radio"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="radio"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="radio"/>	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="radio"/>	NaOH/4°C	1 L PL			
	YES <input type="radio"/>					

Signed: Dale J. Hays

Rev: 8 July 1991



Companies, Inc.

Field Data Record
Ground Water

Project:

CWRP

Project No.:

62510-0052

Date/Time:

4/27/96 11:15

Sheet ____ of ____

Contractor Personnel:

Paul Perrotti & Gary Harrison

TRC Personnel:

A. Buffi

Sample No.:

Well Location: SW-120 (mws-315)

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well Cap Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective Casing Stick-up N ft.
(from ground)Riser Stick-up N ft.
(from ground)WELL DIAMETER 2 inch
 4 inch
 6 inchWell Depth 29.9 ft.Water Depth 7.7 ft.Height of Water Column 22.2 ft. top of riser
 top of casing
 measured historical22.2
.16
.65
1.5
gal/ft in.**OVA/PID SCREENING MEAS.**

Total VOC's	Methane
Background	<u>not measured</u>
Well Mouth	

WELL MATERIAL

 PVC SS Volume of Water in Well = 23 gallon(s)[Vol. = $r^2 h(0.163)$]11 Total gallons to purge**FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)	<u>11</u>	<u>13.5</u>	<u>16</u>			
pH (Std. Units)	<u>11.2</u>	<u>10.0</u>	<u>9.4</u>			
Eh (millivolts)						
Conduct. ($\mu\text{mhos/cm}$)	<u>473</u>	<u>443</u>	<u>410</u>			
Temp. (°F)	<u>63.3</u>	<u>61.0</u>	<u>58.5</u>			
Turb. (NTU)						
DO (mg/l)						

Sample Description

Clear Turbid
Color Grey none
Odor _____
Other _____**SAMPLE EQUIP./DECON. PURGE SAMPLE**

Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Baileys	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT IDdisposable to purge
SS to sample**DECON. FLUID USED**Tap Water
Alconox
Tap Water
HNO₃ (1 or 10%)
Tap Water
Methanol
Hexane
Acetone
Air Dry
DI Water
Air Dry
None **DESCRIPTION OF DECON. PROC.****ANALYTICAL PARAMETERS**

	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	GLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCE Volatiles	YES <input checked="" type="radio"/>	4°C H2O	2x40 mL	4/28/96 11:45	SW-120	
<input type="checkbox"/> BNA Extractables	YES <input type="radio"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="radio"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="radio"/>	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="radio"/>	NaOH/4°C	1 L PL			
<input type="checkbox"/>	YES <input type="radio"/>					

Signed: Paul Perrotti

Rev: 8 July 1991

Field Data Record Ground Water

Project:

Project No.:

Date/Time:

Sheet 1 of 1

Sample No.:

Well Location: P-02D

WELL INTEGRITY

Well Location: P-02D

A: Baby

WELL INTEGRITY		YES	NO
Protect. Casing Secure		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact		<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact		<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present		<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security Lock Present		<input checked="" type="checkbox"/>	<input type="checkbox"/>
<hr/> <hr/>			
OVA/PID SCREENING MEAS.			
Total VOC's	Methane		
Background			
Well Mouth			

Protective Casing Stick-up (from ground)		~ 7 ft.
Riser Stick-up (from ground)	~ 3.1 ft.	
<hr/>		
WELL DIAMETER		2 inch
		<input type="checkbox"/>
		<input type="checkbox"/>
		<input type="checkbox"/>
		1.5
<hr/>		
WELL MATERIAL		<input type="checkbox"/>
PVC	SS	<input checked="" type="checkbox"/> gal steel

Well Depth		51.7 ft.
		<input checked="" type="checkbox"/> top of riser
		<input checked="" type="checkbox"/> top of casing
		<input type="checkbox"/> measured historical
		<hr/>
Water Depth		6.4 ft.
		<input type="checkbox"/>
Height of Water Column		45.3 ft. x
		<input type="checkbox"/> .16 gal/ft (2 in.)
		<input type="checkbox"/> .65 gal/ft (4 in.)
		<input type="checkbox"/> 1.5 gal/ft (6 in.)
		<input type="checkbox"/> ___ gal/ft (___ in.)
Volume of Water in Well =		3 gallon(s)
		$\frac{9}{4}$
[Vol. = r ² h(0.163)]		
		Total gallons to purge

FIELD WATER QUALITY MEASUREMENTS

SAMPLE EQUIP/DECON.	PURGE	SAMPLE	EQUIPMENT ID	DECON. FLUID USED
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>	<u>purge with pencil</u>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>sample with pencil</u>	<input type="checkbox"/>
Baile:	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Waterra				<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TET Volatiles	YES <input checked="" type="radio"/>	4° C HCl	2x40 mL	10/45	P02D	
<input type="checkbox"/> BNA Extractables	YES NO	4° C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES NO	4° C				
<input type="checkbox"/> TAL Metals	YES NO	HNO ₃ /4° C	1 L PL			
<input type="checkbox"/> Cyanide	YES NO	NaOH/4° C	1 L PL			
	YES NO			Q 10		



Companies, Inc.

Field Data Record

Ground Water

Project:

CIBA

Project No.:

02510-0052

Date/Time:

04/27/90/0930

Sheet ____ of ____

Contractor Personnel:

Paul Perratti : Greg Martin

TRC Personnel:

A. Balogh

Sample No.:

Well Location: MW - 23

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Protective
Casing Stick-up N 3.5 ft.
(from ground)Well
Depth 18.5 ft.

top of riser
 top of casing
 measured historical
 historical

Riser Stick-up N 3.0 ft.
(from ground)Water
Depth 6.4 ft.WELL DIAMETER

2 inch
4 inch
6 inchHeight of
Water Column 12.1 ft.

.16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 gal/ft ___ in.)

OVA/PID SCREENING MEAS.

Total VOC's	Methane
Background	<u>No Methane</u>
Well Mouth	<u>None</u>

WELL MATERIAL

PVC SS

Volume of Water in Well = 7.87 gallon(s)[Vol. = $\pi r^2 h(0.163)$]Total gallons
to purge

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)	7.9	15.8	24.7						Sample Description
pH (Std. Units)	7.7	8.2	8.2						
Eh (millivolts)			46.7						
Conduct. ($\mu\text{mhos/cm}$)	17.8	47.3	67.3						
Temp. (°C F)	56.8	55.9	55.2						
Turb. (NTU)									
DO (mg/l)									

DECON. FLUID USED

Tap Water

Alconox

Tap Water

HNO₃ (1 or 10%)

Tap Water

Methanol

Hexane

Acetone

Air Dry

DI Water

Air Dry

None

SAMPLE EQUIP/DECON. PURGE SAMPLE

EQUIPMENT ID

Whale pump - purge
Sample with ss pump breaker

Peristaltic Pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Baileys	<input type="checkbox"/>	<input type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS

Filtered
(circle)Preservation
MethodVolume
RequiredTime of
Collection-ePL
Sample #CLP
Case #

<input checked="" type="checkbox"/> TEL Volatiles	YES <input type="radio"/> NO <input checked="" type="radio"/>	4°C HCl	2x40 mL	1000	MW-02s
<input type="checkbox"/> BNA Extractables	YES NO	4°C	4x1 L Amb GL		
<input type="checkbox"/> PCBs/Pesticides	YES NO	4°C			
<input type="checkbox"/> TAL Metals	YES NO	HNO ₃ /4°C	1 L PL		
<input type="checkbox"/> Cyanide	YES NO	NaOH/4°C	1 L PL		
<input type="checkbox"/>	YES NO				

Signed: D. A. P.M.

Rev: 8 July 1991



Companies, Inc.

Field Data Record

Ground Water

Project:

Cba

Project No.:

02510-0052

Date/Time:

4/28/98 1115

Sheet ____ of ____

Sample No.: MW-145

Contractor Personnel:

Paul Perrotti & Greg Harrison

TRC Personnel:

T. Mays

Well Location: MW-145

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up ~1.5 ft.
(from ground)Well
Depth 17.3 ft. top of riser
 top of casing measured
 historicalRiser Stick-up
(from ground) ~1.5 ft.Water
Depth ___ ft.WELL DIAMETER
2 inch
4 inch
6 inchHeight of
Water Column ___ ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft ___ in.)

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL

 PVC SS

Volume of Water in Well = _____ gallon(s)

[Vol. = $r^2 h(0.163)$]Total gallons
to purge

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)

pH (Std. Units)

Eh (millivolts)

Conduct. ($\mu\text{mhos/cm}$)

Temp. (C)

Turb. (NTU)

DO (mg/l)

Sample Description

Clear Turbid
Color _____
Odor Strong Tolene
Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

	PURGE	SAMPLE
Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Baile:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT ID

Baile used for both purging
and supply. LNAPL was
detected in this 1/2".

DECON. FLUID USED

Tap Water
Alconox
Tap Water
HNO₃ (1 or 10%)
Tap Water
Methanol
Hexane
Acetone
Air Dry
DI Water
Air Dry
None

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles 8260	YES <input checked="" type="radio"/>	4°C HCl	2x40 mL	1115	-	-
<input type="checkbox"/> BNA Extractables	YES <input type="radio"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="radio"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="radio"/>	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="radio"/>	NaOH/4°C	1 L PL			
	YES <input type="radio"/>					

AF-206A

Signed: Todd D. Mays

Rev: 8 July 1991

Field Data Record
Ground Water

Project:

Ciba

Project No.:

02510-0052

Date/Time:

4/28/91 1050

Sheet ___ of ___

Contractor Personnel:

Paul Renzetti & Greg Garrison

TRC Personnel:

T Major

Sample No.: MW - 4S / mw-4SD

Well Location:

MW - 4S

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up 22 ft.
(from ground)Well
Depth 21.6 ft. top of riser
 top of casing measured
 historicalRiser Stick-up
(from ground) 22 ft.Water
Depth 10.4 ft.

WELL DIAMETER

Height of
Water Column 11.2 ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 gal/ft (in.)

WELL MATERIAL

Volume of Water in Well = 7.28 gallon(s)21.84 Total gallons
to purge PVC SS [Vol. = $r^2 h(0.163)$]**OVA/PID SCREENING MEAS.**

Total VOC's	Methane
Background	NA
Well Mouth	NA

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)								Sample Description
pH (Std. Units)	7.3	7.4						
Eh (millivolts)								
Conduct. ($\mu\text{mhos/cm}$)	66.5	56.9						
Temp. (C)	65.2	63.4						
Turb. (NTU)								
DO (mg/l)								

Clear Turbid Color NoneOdor Slight

Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Bailer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>
<u>Whole Pump</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT ID
Whole - Pump was used for purging
and bailer for sampling**DECON. FLUID USED**

Tap Water
 Alconox
 Tap Water
 HNO_3 (1 or 10%)
 Tap Water
 Methanol
 Hexane
 Acetone
 Air Dry
 DI Water
 Air Dry
 None

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles 8260	YES <input checked="" type="checkbox"/>	4°C HCl	2x40 mL	1050	—	—
<input type="checkbox"/> BNA Extractables	YES NO	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES NO	4°C				
<input type="checkbox"/> TAL Metals	YES NO	$\text{HNO}_3/4^\circ\text{C}$	1 L PL			
<input type="checkbox"/> Cyanide	YES NO	$\text{NaOH}/4^\circ\text{C}$	1 L PL			
<input type="checkbox"/> _____	YES NO					

AF-306A

Signed: Todd J. Major

Rev: 8 July 1991

TRC

Companies, Inc.

Field Data Record
Ground Water

Project:

Ciba

Project No.:

02510-0052

Date/Time:

4/28/98 0945

Sheet ___ of ___

Contractor Personnel:

Paul Pianetti & Greg Harrison

TRC Personnel:

T. Major

Sample No.: MW - 125

Well Location: MW - 125 0945

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective
Casing Stick-up ~2.0 ft.
(from ground)Riser Stick-up
(from ground) ~2.0 ft.WELL DIAMETER
 2 inch
 4 inch
 6 inchWell
Depth 21.6 ft.Water
Depth 11.9 ft. top of riser
 top of casing
 measured
 historicalHeight of
Water Column 10.3 ft.
11.2 ft. x .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 gal/ft (in.)
6.69Volume of Water in Well = 7.28 gallon(s)21.84 Total gallons
20.08 to purge**OVA/PID SCREENING MEAS.**

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL PVC SS **FIELD WATER QUALITY MEASUREMENTS**

Purge Volume (gal)						
pH (Std. Units)	8.0	7.4				
Eh (millivolts)						
Conduct. ($\mu\text{mhos}/\text{cm}$)	40.9	39				
Temp. (C)	54	53.4				
Turb. (NTU)						
DO (mg/l)						

Sample DescriptionClear Turbid
Color None
Odor Slight
Other _____**SAMPLE EQUIP/DECON. PURGE SAMPLE**

Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Baileys	<input type="checkbox"/>	X
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input type="checkbox"/>	<input type="checkbox"/>
<u>Whole Pump</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Whole Pump used to purge
and baileys used to sample**EQUIPMENT ID****DECON. FLUID USED**Tap Water
Alconox
Tap Water
 HNO_3 (1 or 10%)
Tap Water
Methanol
Hexane
Acetone
Air Dry
DI Water
Air Dry
None**DESCRIPTION OF DECON. PROC.**

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles 8260	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C HCl	2x40 mL	0945	—	—
<input type="checkbox"/> BNA Extractables	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	4°C				
<input type="checkbox"/> TAL Metals	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	$\text{HNO}_3/4^\circ \text{C}$	1 L PL			
<input type="checkbox"/> Cyanide	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	$\text{NaOH}/4^\circ \text{C}$	1 L PL			
<input type="checkbox"/> _____	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>					



Companies, Inc.

Field Data Record

Ground Water

Project:

C.b.a

Project No.:

02510-0052

Date/Time:

4/28/98 0910

Sheet ___ of ___

Contractor Personnel:

Paul Perronni & Greg Harrison

TRC Personnel:

T. Major

Sample No.: MW - 135

Well Location: MW - 135

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	X	
Concrete Collar Intact		X
PVC Stick-up Intact	X	
Well Cap Present	X	
Security Lock Present	X	

Protective
Casing Stick-up 2.0 ft.
(from ground)Well
Depth 19.6 ft. top of riser
 top of casing measured
 historicalRiser Stick-up
(from ground) ~2.0 ft.Water
Depth 8.6 ft.WELL DIAMETER
 2 inch
 4 inch
 6 inchHeight of
Water Column 11 ft. .16 gal/ft (2 in.)
 .65 gal/ft (4 in.)
 1.5 gal/ft (6 in.)
 ___ gal/ft (___ in.)

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL

Volume of Water in Well = 7.15 gallon(s)21.45 Total gallons
to purge PVC SS [Vol. = $r^2 h(0.163)$]

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)

pH (Std. Units)

8.2 7.9

Sample Description

Eh (millivolts)

Conduct. ($\mu\text{mhos/cm}$)

43.0 43.1

Clear Turbid

Temp. (C)

54.6 55

Color None

Turb. (NTU)

Odor Slight

DO (mg/l)

Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump

Submersible Pump

Bailey

Waterra

PVC/Silicon Tubing

Teflon/Silicon Tubing

Air Lift

In-line Filter

Pressure Vacuum Filter

Measuring Tape

Whole PumpEQUIPMENT ID
Whole Pump was used for
pumping and a Baileys for
sample collection

DECON. FLUID USED

Tap Water

Alconox

Tap Water

HNO₃ (1 or 10%)

Tap Water

Methanol

Hexane

Acetone

Air Dry

DI Water

Air Dry

None

DESCRIPTION OF DECON. PROC.

ANALYTICAL PARAMETERS

Filtered
(circle)Preservation
MethodVolume
RequiredTime of
CollectionCLP
Sample #CLP
Case # TCL Volatiles 8160YES NO4°C HCl

2x40 mL

0910

—

—

 BNA Extractables

YES NO

4°C

4x1 L Amb GL

 PCBs/Pesticides

YES NO

4°C

 TAL Metals

YES NO

HNO₃/4°C

1 L PL

 Cyanide

YES NO

NaOH/4°C

1 L PL

TRC Companies, Inc.
Field Data Record
Ground Water

Project: <i>Ciba</i>	Project No.: 02510-0052	Date/Time: 4/28/98 0835	Sheet ___ of ___
Contractor Personnel: <i>Paul Penroth; Greg Hanson</i>	TRC Personnel: <i>T. Major</i>		

Sample No.: P-385

Well Location: P-385

WELL INTEGRITY

	YES	NO
Protect. Casing Secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Concrete Collar Intact	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PVC Stick-up Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well Cap Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Security Lock Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Protective
Casing Stick-up ~2.0 ft.
(from ground)

Riser Stick-up
(from ground) ~2.0 ft.

WELL DIAMETER
 2 inch
 4 inch
 6 inch

Well Depth 18.2 ft.

Water Depth 6.8 ft.

Height of
Water Column 11.4 ft.

top of riser
 top of casing

measured
 historical

OVA/PID SCREENING MEAS.

	Total VOC's	Methane
Background	NA	
Well Mouth	NA	

WELL MATERIAL

PVC SS

Volume of Water in Well = 1.8 gallon(s)

5.5 Total gallons
to purge

FIELD WATER QUALITY MEASUREMENTS

Purge Volume (gal)													Sample Description	
pH (Std. Units)	9.8	9.0												
Eh (millivolts)	36.5	36.3												
Conduct. ($\mu\text{mhos/cm}$)	56.3	55.4												
Temp. (C)	56.3	55.4												
Turb. (NTU)														
DO (mg/l)														

Clear Turbid
Color None
Odor None
Other _____

SAMPLE EQUIP/DECON. PURGE SAMPLE

Peristaltic Pump	<input type="checkbox"/>	<input type="checkbox"/>
Submersible Pump	<input type="checkbox"/>	<input type="checkbox"/>
Bailer	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Waterra	<input type="checkbox"/>	<input type="checkbox"/>
PVC/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Teflon/Silicon Tubing	<input type="checkbox"/>	<input type="checkbox"/>
Air Lift	<input type="checkbox"/>	<input type="checkbox"/>
In-line Filter	<input type="checkbox"/>	<input type="checkbox"/>
Pressure Vacuum Filter	<input type="checkbox"/>	<input type="checkbox"/>
Measuring Tape	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>Whale Pump</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

EQUIPMENT ID
Purged well w/ whole Pump
Sampled with Bailer

DECON. FLUID USED

Tap Water
Alconox
Tap Water
HNO₃ (1 or 10%)
Tap Water
Methanol
Hexane
Acetone
Air Dry
DI Water
Air Dry
None

ANALYTICAL PARAMETERS	Filtered (circle)	Preservation Method	Volume Required	Time of Collection	CLP Sample #	CLP Case #
<input checked="" type="checkbox"/> TCL Volatiles 8260	YES <input checked="" type="checkbox"/>	4°C HCl	2x40 mL	0835	—	—
<input type="checkbox"/> BNA Extractables	YES NO	4°C	4x1 L Amb GL			
<input type="checkbox"/> PCBs/Pesticides	YES NO	4°C				
<input type="checkbox"/> TAL Metals	YES NO	HNO ₃ /4°C	1 L PL			
<input type="checkbox"/> Cyanide	YES NO	NaOH/4°C	1 L PL			
<input type="checkbox"/> _____	YES NO					

AF-208A

Signed: Todd D. Major

Rev: 8 July 1991

ATTACHMENT B

COPY OF LOG BOOK

Allis Buff

04/27/98

(1)

0830 Arrive @ Ciba- Specialty site. Sign
in @ field office with Walter
Allen (Ciba) and meet Paul
Perrotti (RI Analytical).

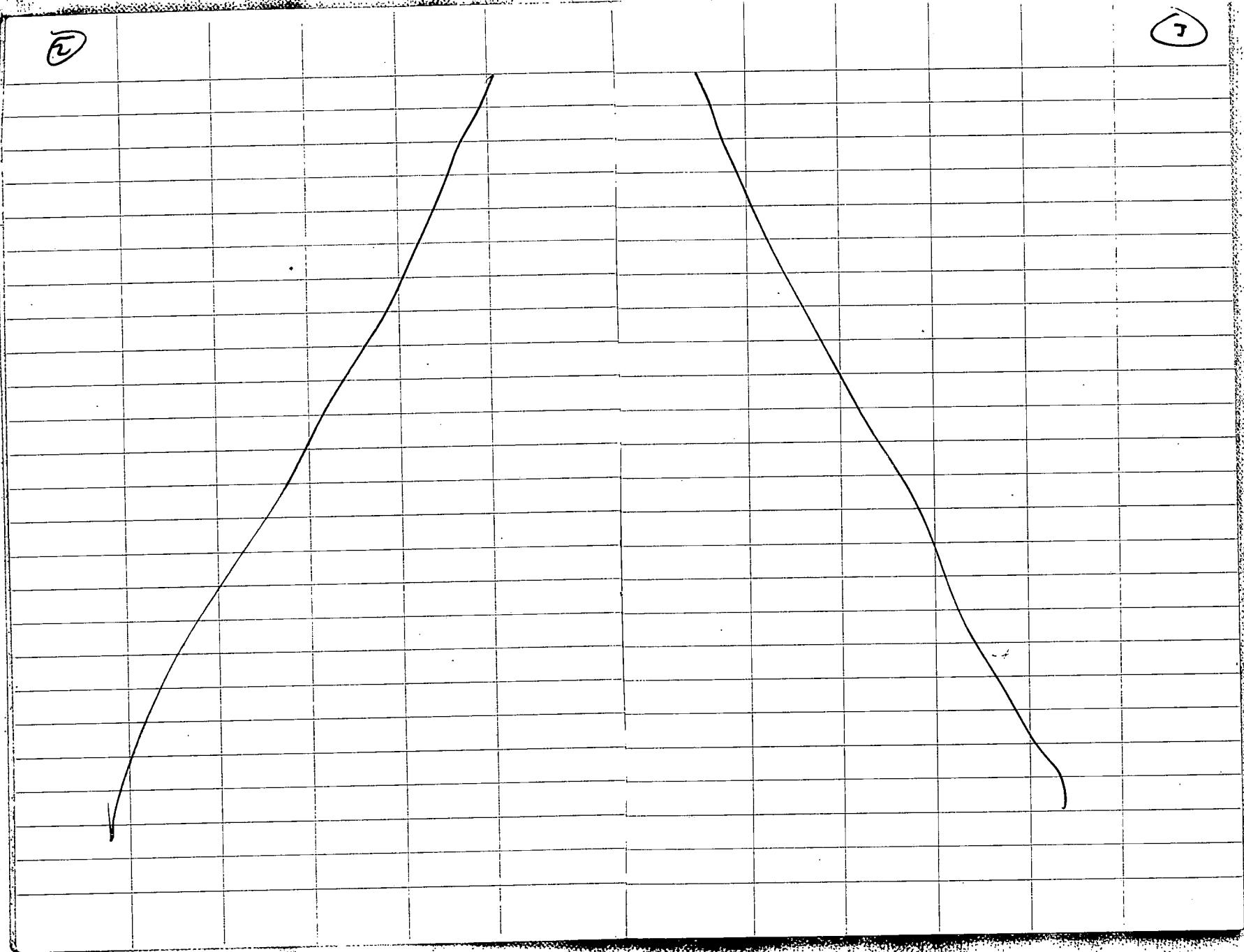
Objective: obtain groundwater
split samples for VDE analysis
of all wells being sampled by
RIA. Reportedly, 16 points
will be sampled during this
gw sampling event.

Splits to be obtained as outlined
in 4/15/98 addendum to the
6/26/95 FOWP.

A copy of the RIA SOP for
gw sampling at the Ciba-site
is in my possession to verify
procedures used to obtain samples.

0915 RIA awaiting delivery of
add'l sampling equipment
Proceed to sampling areas to
review today's proposed activities.
MW-25

Greg Harrison (RIA) also on site



(4)

John D. Baff 04/27/98

List of all wells to be sampled by
RIA:VE-11, MW-135, SW-110, SW-170, SW-130,
MW-15, MW-025, MW-045, MW-125,
MW-215, P-345, P-355, P-365, P-375,
P-385, and P02D.

0930

proceed to MW-25, located
in SE corner along wall.See field gw data sheet for
pumping info. RIA pumping
with white submersible pump and
tether tubing. RIA plans to
sample with a boiler (disposable).Photo #1 view to North
across sitePhoto #2 view to East
across sitePhoto #3 view to south
across sitePhoto #4 view to west
across site.

1000 Obtain MW-D2s split.

John D. Baff

(5)

John D. Baff 04/27/98

1000 proceed to P-02D
see gw data sheet for details
photo #5 RIA ob measuring gw
level in P-02D.1040 Obtain P02D split
1050 proceed to P-355.see gw data sheet for details
photo #6 view to South1115 obtain P-355 split
proceed to SW-120.photo #7 RIA pumping SW-120
with boller.

SW-120 is also labelled MW-315.

→ see gw data sheet for details

1145 obtain SW-120 split sample.
1150 proceed to P-3651210 Obtain Rinsate/Equipment
blank while pumping P-365.RIA has bought ~15 ss
tainers to sample wells. RIA describes
decon process in lab: DI rinse,
alcohol wash, DI rinse, methanol
rinse, and DI rinse.

John D. Baff

(6)

Oth J Pyp 4/27/98

+12:12:15 obtain flw. 36s triple
volume for VOC ms/MSD.

1225

proceed to P-345

see gw data sheet for details

photo #98 view to Eastview of RIA pump
P-345.

1245

allow P-345 to recharge. RIA
departs to get add'l tanks.
Break for lunch

1315

back onsite

update J Hall (JMC) no activities.

1345

obtain P-345 split sample

1400

proceed to R- MW-1S

see gw data sheet

1415

proceed to SW-130, MW-1S recharge

see gw data sheet.

1430

obtain SW-130

1445

mw-1s still recharging

proceed to MW-1S P-375

1515

slow recharge @ P-375

proceed to SW-110.

See gw data sheet

Oth J Pyp

(6) Oth J Pyp

4/28/98

(7)

photo #10 View to East

View of P-375

photo #11 View to Sod east

View of SW-110.

1530

1555

1615

obtain

P-375 split sample

obtain MW-1S

sign out from facility

off site

return to house to pack
& send samples to lab

Oth J Pyp 4/27/98

(8)

Todd D. Major 4/28/98

0745 Arrive at Ciba - Geigy to collect
low split-samples with R.I.
analytical - **TB-02 collected**

0800 Paul, bring from RI analytical on-site
to collect samples.

0815 WL 6.8. P-385 TD - 18.2

located along river bank
photo #12 - well location
P-385

Ht of water column 11.4

purge volume 5.5 gal.

Vol 1 Vol 2

pH 9.8 9.0

Specific 36.5 36.3

temp 56.3 56.4

DO

0835 **[Sampling P-385]**

0840 Arrive at MW-125, South of
Main treatment Bldg.

WL - 8.6

TD - 19.6

Ht of column - 11.0

purge volume - 22 gals

Todd D. Major 4/28/98

(9) 4/28/98

TDW Vol 1

8.2 7.9

Conc. 43.0 43.1

temp. 54.6 55.

DO.

0910 **[Sampling MW-125]**

Arrive at mw-125, purging
has started.

WL: 21. TM 21.6

TD: 11.3'

Ht of column: 10.3'

Purge Vol: 20 gal.

Vol 1 Vol 2

pH 8.0 7.4

Conc. 40.9 39

temp 54.0 53.4

pic# 13 - mw-125

0945 **[Sampling MW-125]**

0955 Mobilize to MW-45

pic# 14 - mw-45

TDW - 10.4

TD - 21.6

Ht H₂O Gd. 11.2

Purge 23 gals.

4/28/98 Todd D. Major

(ID)

TDM: 4/28/98

Vol 1 Vol 2

pH	7.3	7.4
cond	66.5	56.7
temp	65.2	63.4

11 gallons removed before well
went dry.

1050

[Sampling mw-45] 1130 [Stop by mw-45]

Collected duplicate sample

RI analytical collected a

Rins. & blank were on this well.

1105

Mobilize to mw-145, product
visible in 5 gal bucket.

ODOR, ungradient. RI analytical
will not take reading here
due to the presence of foliage.

Picture # 15 - mw-145 site.

TD = 17.3

Will purge 15 gallons prior
to sampling.

1115

[Sampling mw-145] (Due to the
duplicate sample, sample was
actually collected at 1130)

TDM: 4/28/98

(II)

off site to lunch

Arrive at mw-215

TD = 17.3 DTM = 4.0 HC = 13.3 WL =

Vol 1 Vol 2

pH	7.20	7.8
cond	38.6	36.0
temp	55.0	56.0
1315	[Sampling mw-215]	
1330	TRC OFF SITE	

Todd D. Mai: 4/28/98

Todd D. Mai: 4/28/98

ATTACHMENT C

PHOTOGRAPH LOG

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998



Photo #1. View to the North Across Site.



Photo #2. View to the East Across Site

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998



Photo #3. View to the South Across Site.



Photo #4. View to the West Across Site.

**CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998**



Photo #5. RIA measuring GW level in P-02D.



Photo #6. View to the South, Well P-35S along river.

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998



Photo #7. RIA purging SW-120 with bailer.



Photo #8. View to the East, RIA pumping P-34S

CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998



Photograph #9. View to the East, Well P-37S.



Photo #10. View to the East, Well SW-110.

**CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998**



Photo #11. View to the East, Well SW-110.



Photo #12. Well location P-38S.

**CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998**



Photo #13. Sampling location MW-12S.



Photo #14. Well 4S location.

**CIBA - GEIGY
Cranston, R.I.
April 23 and 24, 1998**

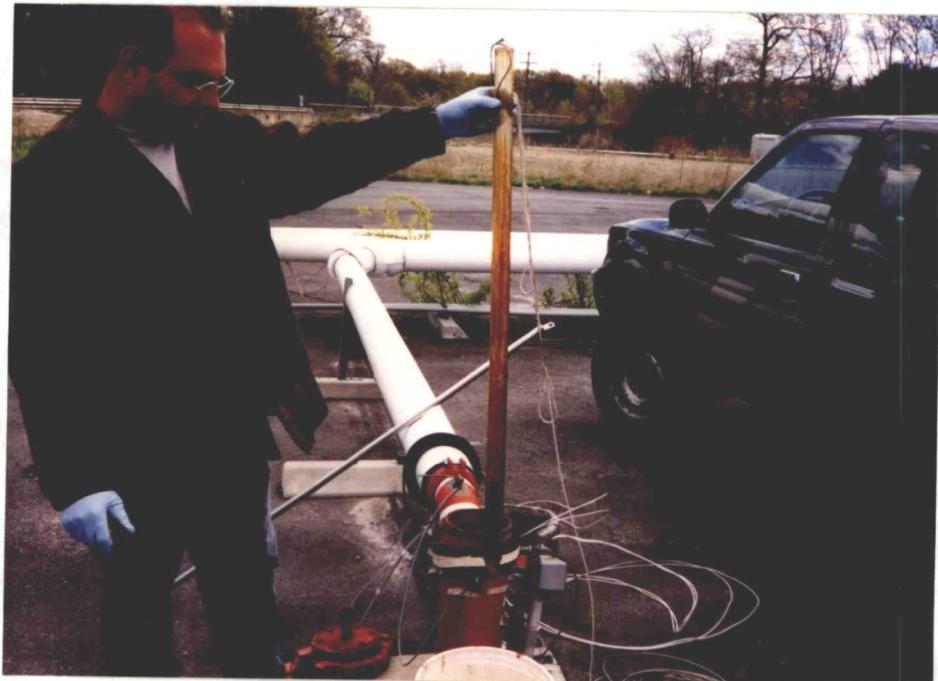


Photo #15. Visible product encountered in MW-14S.



Photo #16. Monitoring well 21S outside of Ciba-Geigy fence line.

ATTACHMENT D

CHAIN-OF-CUSTODY FORMS



404 SW 140th Terrace, Newberry, FL 32669
Telephone: (352) 332-3318 - Fax: (352) 332-0507

FOR LAB USE ONLY

122-72

Project Number:

Chain of Custody Record

Client: TRC Environmental Co., Inc.
Address: Booth Mills
Route of John St
Lowell, MA 01852
Phone #: (978) 970-5100 Fax #: (978) 453-1995
P.O. # _____
Client Contact: Jennifer Hurlin
Project # / Location: 01852-LUSZ/L13A

Sample Type:

- 1. Water
- 2. Soil
- 3. Sludge
- 4. Oil
- 5. Tissue

Container Type:
P - Plastic
G - Glass
V - VOC

Other:

- PRESERVATIVE:
- 1. None
 - 2. H₂SO₄
 - 3. HNO₃
 - 4. NaOH
 - 5. HCl

Analyses

Sample I.D. (10 Characters ONLY)	Sample Type	Container Size	Container Type	No.	Date	Time	Preser- vative	Lab I.D.	Analyses
MW-025	1	4ml	6vial	2x	4/17/98	1000	5		✓
P-02D	1	40ml	6vial	2x	4/17/98	1045	5		✓
P-35S	1	4ml	6vial	2x	4/17/98	1115	5		✓
SW-120	1	40ml	6vial	2x	4/17/98	1145	5		✓
P-36S	1	4ml	6vial	6	4/17/98	1715	5		✓
RB-1	1	40ml	6vial	2x	4/17/98	1210	5		✓
P-34S	1	4ml	6vial	2x	4/17/98	1345	5		✓
SW-130	1	4ml	6vial	2x	4/17/98	1430	5		-
P-37S	1	4ml	6vial	2x	4/17/98	1530	5 ml		✓
SW-110	1	40ml	6vial	2x	4/17/98	1540	5 ml		✓
MW-15	1	4ml	6vial	2x	4/17/98	1535	5		✓
1B-1	1	Supplied by	lab						✓

Relinquished By:

John R. P.

Date: 4 - 27 - 98

Time: 19 :00

Received By:

John R. P. An 4/11 # 5507687

Date:

--

Time:

--

FOR LAB USE ONLY

Samples Received/Chilled

Yes No

SPECIAL INSTRUCTIONS:

Copies: White - Client Canary - Lab Receipting Photo - Lab File Colored - Retained by Sampler

ATTACHMENT E

ANALYTICAL DATA SHEETS

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-02S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*1

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1538

Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	64.	
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	1.5	J
67-64-1	ACETONE	16.	
75-15-0	CARBON DISULFIDE	4.3	J
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	17.	
75-34-3	1,1-DICHLOROETHANE	0.96	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2400.	D40
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	0.64	J
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	13.	
79-01-6	TRICHLOROETHENE	12.	
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	86.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	8.3	
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	2000.	D40
100-41-4	ETHYLBENZENE	9.3	
1330-20-7	XYLENES, TOTAL	22.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

P-02D

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*2

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1609

Date Analyzed: 05/04/98

CONCENTRATION UNITS

UG/L Q

CAS NO.	COMPOUND	CONCENTRATION UNITS	UG/L	Q
74-87-3	CHLOROMETHANE		4.4	U
75-01-4	VINYL CHLORIDE		4.6	U
74-83-9	BROMOMETHANE		3.5	U
75-00-3	CHLOROETHANE		8.2	U
75-35-4	1,1-DICHLOROETHYLENE		3.2	U
67-64-1	ACETONE		9.0	U
75-15-0	CARBON DISULFIDE		4.4	U
75-09-2	METHYLENE CHLORIDE		6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE		2.4	U
75-34-3	1,1-DICHLOROETHANE		2.5	U
108-05-4	VINYL ACETATE		10.	U
156-59-2	CIS-1,2-DICHLOROETHENE		2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)		10.	U
67-66-3	CHLOROFORM		2.5	U
71-55-6	1,1,1-TRICHLOROETHANE		2.5	U
107-06-2	1,2-DICHLOROETHANE		2.5	U
56-23-5	CARBON TETRACHLORIDE		2.6	U
71-43-2	BENZENE		1.0	U
79-01-6	TRICHLOROETHENE		3.0	U
78-87-5	1,2-DICHLOROPROPANE		2.0	U
75-27-4	BROMODICHLOROMETHANE		2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE		2.0	U
108-10-1	METHYL ISOBUTYL KETONE		12.	U
108-88-3	TOLUENE		1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE		1.6	U
79-00-5	1,1,2-TRICHLOROETHANE		2.8	U
127-18-4	TETRACHLOROETHENE		1.9	U
591-78-6	2-HEXANONE (MBK)		21.	U
124-48-1	DIBROMOCHLOROMETHANE		2.3	U
108-90-7	CHLOROBENZENE		1.9	U
100-41-4	ETHYLBENZENE		1.3	U
1330-20-7	XYLENES, TOTAL		3.7	U
100-42-5	STYRENE		0.50	U
75-25-2	BROMOFORM		2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE		1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

P-35S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*3

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1639

Date Analyzed: 05/04/98

CONCENTRATION UNITS

UG/L Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	5.2	
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	2.6	J
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	0.98	J
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	11.	
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	5.1	
79-01-6	TRICHLOROETHENE	2.0	J
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	2.7	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	730.	D5
100-41-4	ETHYLBENZENE	5.8	
1330-20-7	XYLENES, TOTAL	11.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

SW-120

Lab Name: QST	Project No.: 1298524	SDG No.: G90595
Matrix: (soil/water) WATER	Lab Sample ID: TLCEDW1*4	
Sample wt/vol: .	Lab File ID: G90595	
%Moisture: 0.0	Dilution Factor: 1.00	
Concentrated Extract Volume:	Date Received: 04/28/98	
Injection Volume:	Date Extracted:	
Time Analyzed: 1710	Date Analyzed: 05/04/98	

CONCENTRATION UNITS

CAS NO.	COMPOUND	UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.8	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.60	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	0.64	J
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	79.	
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

P-36S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*5

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1407

Date Analyzed: 05/04/98

CONCENTRATION UNITS

UG/L **Q**

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.8	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.81	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.0	J
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	2.9	
79-01-6	TRICHLOROETHENE	1.5	J
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	0.92	J
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	410.	D5
100-41-4	ETHYLBENZENE	0.86	J
1330-20-7	XYLENES, TOTAL	0.96	J
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

RB-1

Lab Name: QST	Project No.: 1298524	SDG No.: G90595
Matrix: (soil/water) WATER	Lab Sample ID: TLCEDW1*6	
Sample wt/vol: .	Lab File ID:	G90595
%Moisture: 0.0	Dilution Factor:	1.00
Concentrated Extract Volume:	Date Received:	04/28/98
Injection Volume:	Date Extracted:	
Time Analyzed: 1740	Date Analyzed:	05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

P-34S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*7

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1811

Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	0.66	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	7.9	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	120.	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	690.	D5
100-41-4	ETHYLBENZENE	3.6	
1330-20-7	XYLENES, TOTAL	9.4	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

SW-130

Lab Name: QST	Project No.: 1298524	SDG No.: G90595
Matrix: (soil/water) WATER	Lab Sample ID: TLCEDW1*8	
Sample wt/vol: .	Lab File ID: G90595	
%Moisture: 0.0	Dilution Factor: 1.00	
Concentrated Extract Volume:	Date Received: 04/28/98	
Injection Volume:	Date Extracted:	
Time Analyzed: 1841	Date Analyzed: 05/04/98	

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	2.5	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	17.	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

P-37S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*9

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1911

Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	1.3	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	1.1	J
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	9.0	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	0.57	J
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	790.	D5
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

SW-110

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*10

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1942

Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	3.4	J
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	1.7	J
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	3.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	28.	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	250.	D20
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1300.	D20
100-41-4	ETHYLBENZENE	2.3	
1330-20-7	XYLENES, TOTAL	6.4	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-1S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*11

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 2012

Date Analyzed: 05/04/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	35.	
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	3.3	
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.9	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	3800.	D20
100-41-4	ETHYLBENZENE	4.1	
1330-20-7	XYLENES, TOTAL	2.6	J
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

P-38S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*14

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 1747

Date Analyzed: 05/06/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-13S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*15

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 1817

Date Analyzed: 05/06/98

CONCENTRATION UNITS

UG/L Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.9	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

MW-12S

Lab Name: QST	Project No.: 1298524	SDG No.: G90595
Matrix: (soil/water) WATER	Lab Sample ID: TLCEDW1*16	
Sample wt/vol: .	Lab File ID: G90595	
Moisture: 0.0	Dilution Factor: 1.00	
Concentrated Extract Volume:	Date Received: 04/29/98	
Injection Volume:	Date Extracted:	
Time Analyzed: 1847	Date Analyzed: 05/06/98	

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	61.	
1330-20-7	XYLENES, TOTAL	120.	
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-4S

Lab Name: QST	Project No.: 1298524	SDG No.: G90595
Matrix: (soil/water) WATER	Lab Sample ID: TLCEDW1*17	
Sample wt/vol: .	Lab File ID: G90595	
%Moisture: 0.0	Dilution Factor: 5.00	
Concentrated Extract Volume:	Date Received: 04/29/98	
Injection Volume:	Date Extracted:	
Time Analyzed: 2126	Date Analyzed: 05/05/98	

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	22.	UD5
75-01-4	VINYL CHLORIDE	23.	UD5
74-83-9	BROMOMETHANE	18.	UD5
75-00-3	CHLOROETHANE	41.	UD5
75-35-4	1,1-DICHLOROETHYLENE	16.	UD5
67-64-1	ACETONE	45.	UD5
75-15-0	CARBON DISULFIDE	22.	UD5
75-09-2	METHYLENE CHLORIDE	32.	UD5
156-60-5	TRANS-1,2-DICHLOROETHENE	12.	UD5
75-34-3	1,1-DICHLOROETHANE	1.7	JD5
108-05-4	VINYL ACETATE	50.	UD5
156-59-2	CIS-1,2-DICHLOROETHENE	25.	D5
78-93-3	METHYL ETHYL KETONE (MEK)	50.	UD5
67-66-3	CHLOROFORM	13.	UD5
71-55-6	1,1,1-TRICHLOROETHANE	1.5	JD5
107-06-2	1,2-DICHLOROETHANE	13.	UD5
56-23-5	CARBON TETRACHLORIDE	13.	UD5
71-43-2	BENZENE	1.7	JD5
79-01-6	TRICHLOROETHENE	15.	UD5
78-87-5	1,2-DICHLOROPROPANE	10.	UD5
75-27-4	BROMODICHLOROMETHANE	11.	UD5
10061-01-5	CIS-1,3-DICHLOROPROPENE	10.	UD5
108-10-1	METHYL ISOBUTYL KETONE	60.	UD5
108-88-3	TOLUENE	1500.	D40
10061-02-6	TRANS-1,3-DICHLOROPROPENE	8.0	UD5
79-00-5	1,1,2-TRICHLOROETHANE	14.	UD5
127-18-4	TETRACHLOROETHENE	9.5	UD5
591-78-6	2-HEXANONE (MBK)	110.	UD5
124-48-1	DIBROMOCHLOROMETHANE	12.	UD5
108-90-7	CHLOROBENZENE	210.	D5
100-41-4	ETHYLBENZENE	33.	D5
1330-20-7	XYLENES, TOTAL	120.	D5
100-42-5	STYRENE	2.5	UD5
75-25-2	BROMOFORM	13.	UD5
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.5	UD5

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-4SD

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*18

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 5.00

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 2157

Date Analyzed: 05/05/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	22.	UD5
75-01-4	VINYL CHLORIDE	23.	UD5
74-83-9	BROMOMETHANE	18.	UD5
75-00-3	CHLOROETHANE	41.	UD5
75-35-4	1,1-DICHLOROETHYLENE	16.	UD5
67-64-1	ACETONE	45.	UD5
75-15-0	CARBON DISULFIDE	22.	UD5
75-09-2	METHYLENE CHLORIDE	32.	UD5
156-60-5	TRANS-1,2-DICHLOROETHENE	12.	UD5
75-34-3	1,1-DICHLOROETHANE	13.	UD5
108-05-4	VINYL ACETATE	50.	UD5
156-59-2	CIS-1,2-DICHLOROETHENE	12.	UD5
78-93-3	METHYL ETHYL KETONE (MEK)	50.	UD5
67-66-3	CHLOROFORM	1.5	JD5
71-55-6	1,1,1-TRICHLOROETHANE	13.	UD5
107-06-2	1,2-DICHLOROETHANE	13.	UD5
56-23-5	CARBON TETRACHLORIDE	13.	UD5
71-43-2	BENZENE	1.4	JD5
79-01-6	TRICHLOROETHENE	15.	UD5
78-87-5	1,2-DICHLOROPROPANE	10.	UD5
75-27-4	BROMODICHLOROMETHANE	11.	UD5
10061-01-5	CIS-1,3-DICHLOROPROPENE	10.	UD5
108-10-1	METHYL ISOBUTYL KETONE	60.	UD5
108-88-3	TOLUENE	2100.	D40
10061-02-6	TRANS-1,3-DICHLOROPROPENE	8.0	UD5
79-00-5	1,1,2-TRICHLOROETHANE	14.	UD5
127-18-4	TETRACHLOROETHENE	2.3	JD5
591-78-6	2-HEXANONE (MBK)	110.	UD5
124-48-1	DIBROMOCHLOROMETHANE	12.	UD5
108-90-7	CHLOROBENZENE	150.	D5
100-41-4	ETHYLBENZENE	41.	D5
1330-20-7	XYLENES, TOTAL	150.	D5
100-42-5	STYRENE	2.5	UD5
75-25-2	BROMOFORM	13.	UD5
79-34-5	1,1,2,2-TETRACHLOROETHANE	7.5	UD5

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-14S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*19

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 100

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 2257

Date Analyzed: 05/05/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	440.	UD100
75-01-4	VINYL CHLORIDE	460.	UD100
74-83-9	BROMOMETHANE	350.	UD100
75-00-3	CHLOROETHANE	820.	UD100
75-35-4	1,1-DICHLOROETHYLENE	320.	UD100
67-64-1	ACETONE	900.	UD100
75-15-0	CARBON DISULFIDE	440.	UD100
75-09-2	METHYLENE CHLORIDE	640.	UD100
156-60-5	TRANS-1,2-DICHLOROETHENE	240.	UD100
75-34-3	1,1-DICHLOROETHANE	250.	UD100
108-05-4	VINYL ACETATE	1000.	UD100
156-59-2	CIS-1,2-DICHLOROETHENE	240.	UD100
78-93-3	METHYL ETHYL KETONE (MEK)	1000.	UD100
67-66-3	CHLOROFORM	250.	UD100
71-55-6	1,1,1-TRICHLOROETHANE	250.	UD100
107-06-2	1,2-DICHLOROETHANE	250.	UD100
56-23-5	CARBON TETRACHLORIDE	260.	UD100
71-43-2	BENZENE	14.	JD100
79-01-6	TRICHLOROETHENE	300.	UD100
78-87-5	1,2-DICHLOROPROPANE	200.	UD100
75-27-4	BROMODICHLOROMETHANE	220.	UD100
10061-01-5	CIS-1,3-DICHLOROPROPENE	200.	UD100
108-10-1	METHYL ISOBUTYL KETONE	1200.	UD100
108-88-3	TOLUENE	230000.	D2000
10061-02-6	TRANS-1,3-DICHLOROPROPENE	160.	UD100
79-00-5	1,1,2-TRICHLOROETHANE	280.	UD100
127-18-4	TETRACHLOROETHENE	130.	JD100
591-78-6	2-HEXANONE (MBK)	2100.	UD100
124-48-1	DIBROMOCHLOROMETHANE	230.	UD100
108-90-7	CHLOROBENZENE	130.	JD100
100-41-4	ETHYLBENZENE	1600.	D100
1330-20-7	XYLENES, TOTAL	7300.	D100
100-42-5	STYRENE	50.	UD100
75-25-2	BROMOFORM	260.	UD100
79-34-5	1,1,2,2-TETRACHLOROETHANE	150.	UD100

**FORM 1
ANALYSIS DATA SHEET**

Client ID

MW-21S

Lab Name: QST

Project No.: 1298524

SDG No.: G90595

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*20

Sample wt/vol: .

Lab File ID: G90595

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 1917

Date Analyzed: 05/06/98

CONCENTRATION UNITS

UG/L Q

CAS NO.	COMPOUND		
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

TB-01

Lab Name: QST

Project No.: 1298524

SDG No.: G90413

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*12

Sample wt/vol:

Lab File ID: G90413

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/28/98

Injection Volume:

Date Extracted:

Time Analyzed: 1659

Date Analyzed: 04/30/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U

FORM 1
ANALYSIS DATA SHEET

Client ID

TB-02

Lab Name: QST

Project No.: 1298524

SDG No.: G90413

Matrix: (soil/water) WATER

Lab Sample ID: TLCEDW1*13

Sample wt/vol: .

Lab File ID: G90413

%Moisture: 0.0

Dilution Factor: 1.00

Concentrated Extract Volume:

Date Received: 04/29/98

Injection Volume:

Date Extracted:

Time Analyzed: 1733

Date Analyzed: 04/30/98

CAS NO.	COMPOUND	CONCENTRATION UNITS	
		UG/L	Q
74-87-3	CHLOROMETHANE	4.4	U
75-01-4	VINYL CHLORIDE	4.6	U
74-83-9	BROMOMETHANE	3.5	U
75-00-3	CHLOROETHANE	8.2	U
75-35-4	1,1-DICHLOROETHYLENE	3.2	U
67-64-1	ACETONE	9.0	U
75-15-0	CARBON DISULFIDE	4.4	U
75-09-2	METHYLENE CHLORIDE	6.4	U
156-60-5	TRANS-1,2-DICHLOROETHENE	2.4	U
75-34-3	1,1-DICHLOROETHANE	2.5	U
108-05-4	VINYL ACETATE	10.	U
156-59-2	CIS-1,2-DICHLOROETHENE	2.4	U
78-93-3	METHYL ETHYL KETONE (MEK)	10.	U
67-66-3	CHLOROFORM	2.5	U
71-55-6	1,1,1-TRICHLOROETHANE	2.5	U
107-06-2	1,2-DICHLOROETHANE	2.5	U
56-23-5	CARBON TETRACHLORIDE	2.6	U
71-43-2	BENZENE	1.0	U
79-01-6	TRICHLOROETHENE	3.0	U
78-87-5	1,2-DICHLOROPROPANE	2.0	U
75-27-4	BROMODICHLOROMETHANE	2.2	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	2.0	U
108-10-1	METHYL ISOBUTYL KETONE	12.	U
108-88-3	TOLUENE	1.7	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1.6	U
79-00-5	1,1,2-TRICHLOROETHANE	2.8	U
127-18-4	TETRACHLOROETHENE	1.9	U
591-78-6	2-HEXANONE (MBK)	21.	U
124-48-1	DIBROMOCHLOROMETHANE	2.3	U
108-90-7	CHLOROBENZENE	1.4	U
100-41-4	ETHYLBENZENE	1.3	U
1330-20-7	XYLENES, TOTAL	3.7	U
100-42-5	STYRENE	0.50	U
75-25-2	BROMOFORM	2.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.5	U